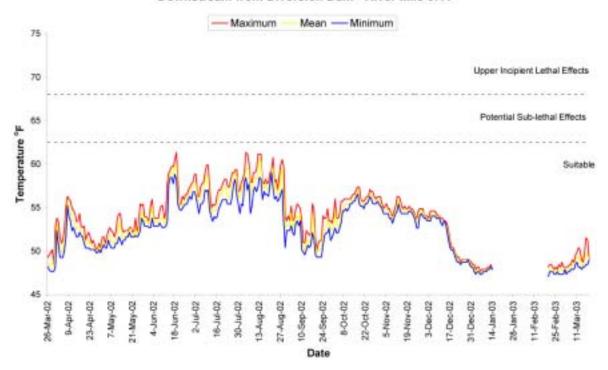
Appendix A

Emigrating Juvenile Steelhead and Juvenile Chinook Salmon Thermal Range Tolerances and Water Temperature Profiles in the Lower Feather River

Maximum Mean - Minimum 75 70 Not Suitable 65 Temperature °F 60 Potential Sub-lethal Effects 55 Suitable 26-Mar-02 7-May-02 18-Jun-02 3-Aug-02 22-Del-02 9-Nov-02 Date

Figure A1. Steelhead Thermal Ranges and Water Temperature Profile Downstream from Diversion Dam - River Mile 67.4

Figure A2. Chinook Salmon Thermal Ranges and Water Temperature Profile Downstream from Diversion Dam - River Mile 67.4



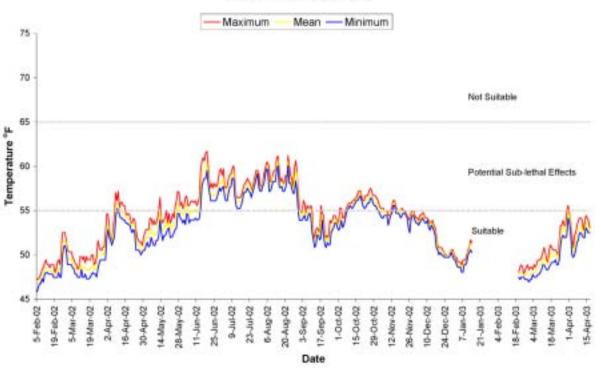
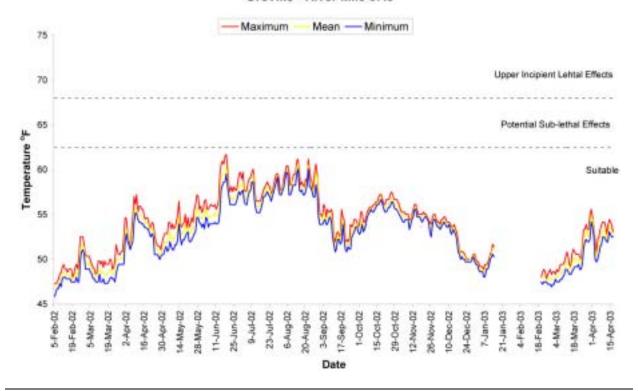


Figure A3. Steelhead Thermal Ranges and Water Temperature Profile at Oroville - River Mile 67.0

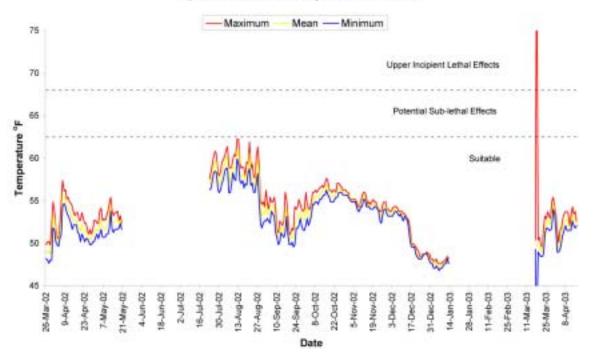
Figure A4. Chinook Salmon Thermal Ranges and Water Temperature Profile at Oroville - River Mile 67.0



Mean - Minimum Maximum 75 70 Not Suitable 65 Temperature °F 60 Potential Sub-lethal Effects 55 50 45 Oct-02 20-Mmy-02 3-Jun-02 7-Jun-02 15-341-02 29-34-02 12-Aug-02 26-Aug-02 9-Sep-02 23-Sep-02 7-Oct-02 2-Dec-02 16-Dec-02 10-Dec-02 13-Jan-03 27-Jan-03 10-Feb-03 24-Feb-03 Date

Figure A5. Steelhead Thermal Ranges and Water Temperature Profile Upstream from Hatchery - River Mile 66.6

Figure A6. Chinook Salmon Thermal Ranges and Water Temperature Profile Upstream from Hatchery - River Mile 66.6



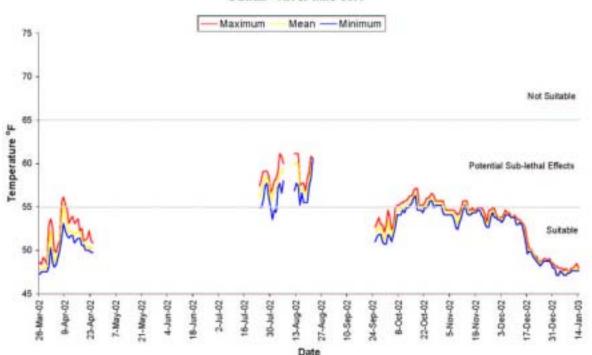
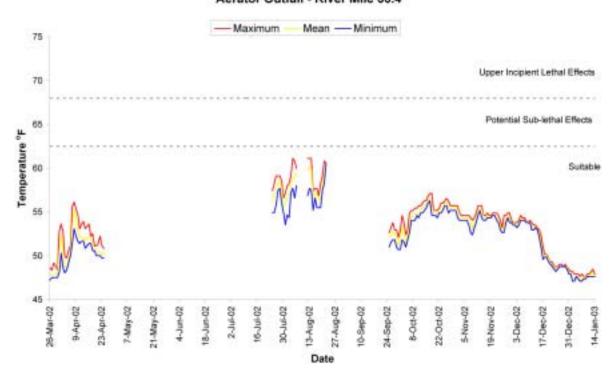


Figure A7. Steelhead Thermal Ranges and Water Temperature Profile at Aerator Outfall - River Mile 66.4

Figure A8. Chinook Salmon Thermal Ranges and Water Temperature Profile at Aerator Outfall - River Mile 66.4



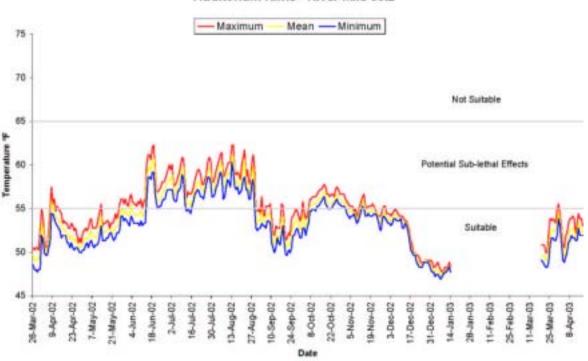
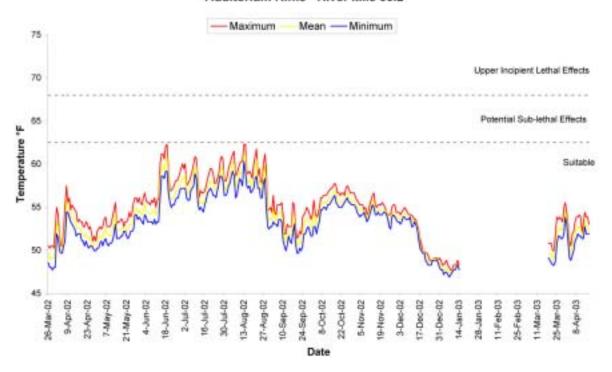


Figure A9. Steelhead Thermal Ranges and Water Temperature Profile at Auditorium Riffle - River Mile 66.2

Figure A10. Chinook Salmon Thermal Ranges and Water Temperature Profile at Auditorium Riffle - River Mile 66.2



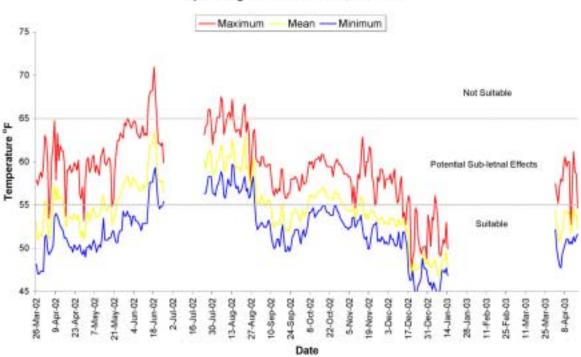
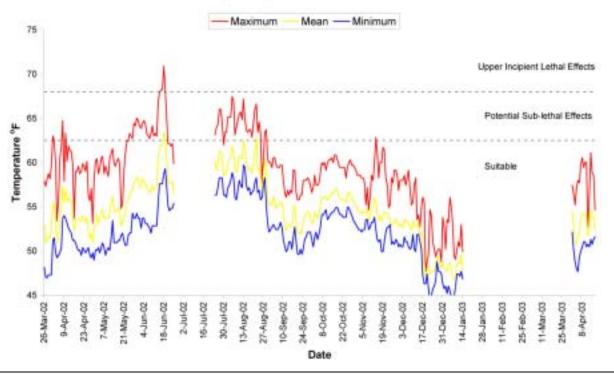


Figure A11. Steelhead Thermal Ranges and Water Temperature Profile at the Spawning Channel - River Mile 66.2

Figure A12. Chinook Salmon Thermal Ranges and Water Temperature Profile at the Spawning Channel - River Mile 66.2



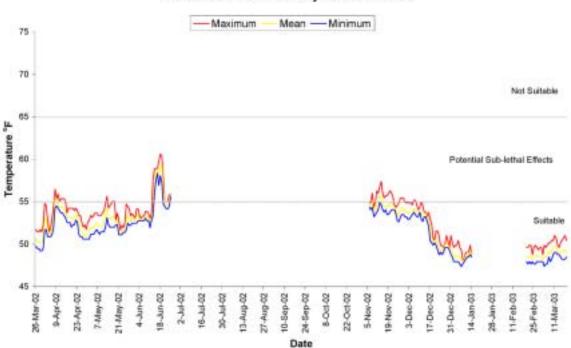
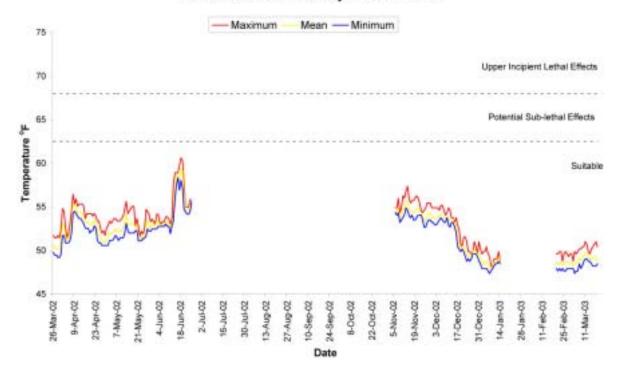


Figure A13. Steelhead Thermal Ranges and Water Temperature Profile Downstream from Hatchery - River Mile 66.0

Figure A14. Chinook Salmon Thermal Ranges and Water Temperature Profile Downstream from Hatchery - River Mile 66.0



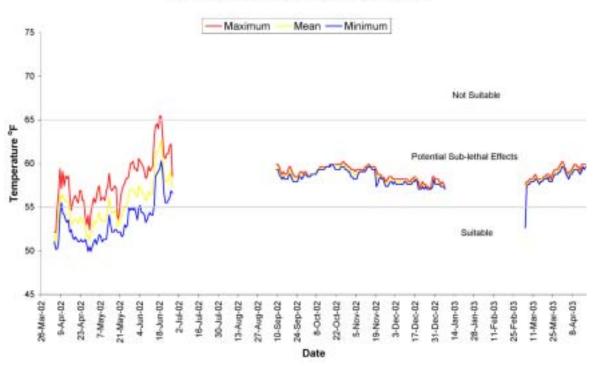


Figure A15. Steelhead Thermal Ranges and Water Temperature Profile Downstream from HWY 162 - River Mile 64.1

Figure A16. Chinook Salmon Thermal Ranges and Water Temperature Profile Downstream from HWY 162 - River Mile 64.1



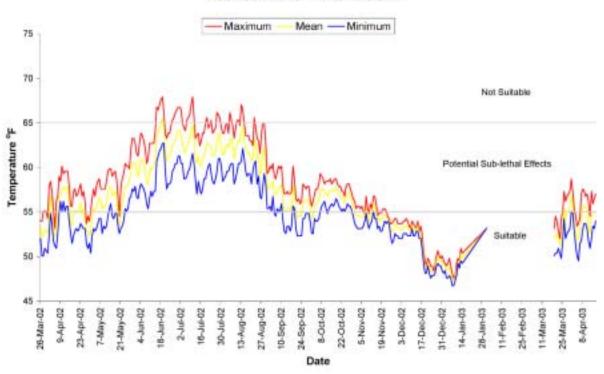
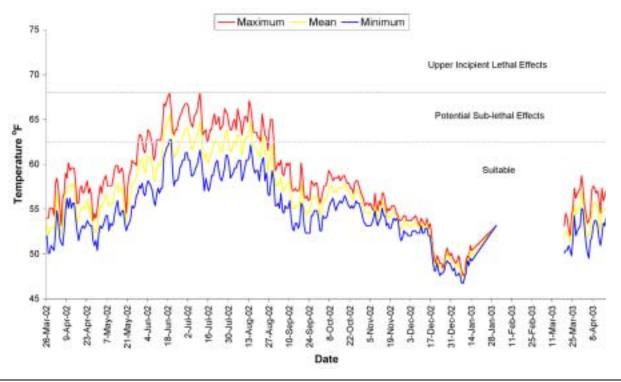


Figure A17. Steelhead Thermal Ranges and Water Temperature Profile at Robinson Riffle - River Mile 61.7

Figure A18. Chinook Salmon Thermal Ranges and Water Temperature Profile at Robinson Riffle - River Mile 61.7



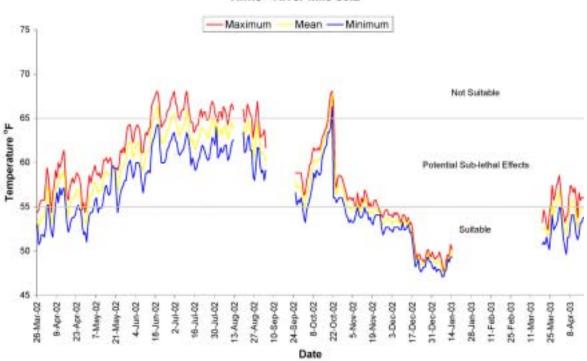
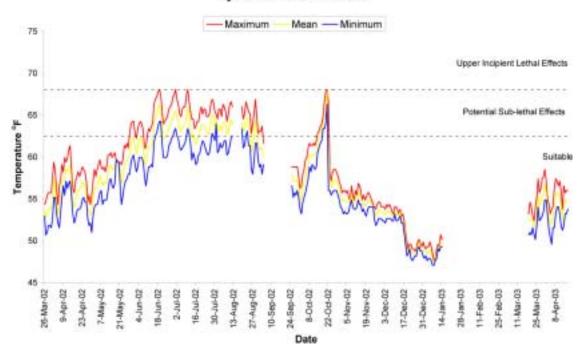


Figure A19. Steelhead Thermal Ranges and Water Temperature Profile at Eye Riffle - River Mile 60.2

Figure A20. Chinook Salmon Thermal Ranges and Water Temperature Profile at Eye Riffle - River Mile 60.2



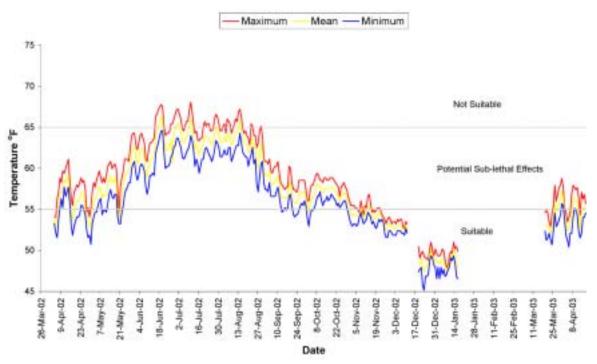
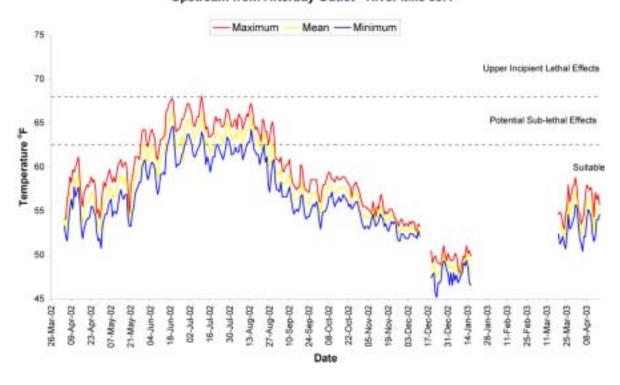


Figure A21. Steelhead Thermal Ranges and Water Temperature Profile Upstream from Afterbay Outlet - River Mile 59.4

Figure A22. Chinook Salmon Thermal Ranges and Water Temperature Profile
Upstream from Afterbay Outlet - River Mile 59.4



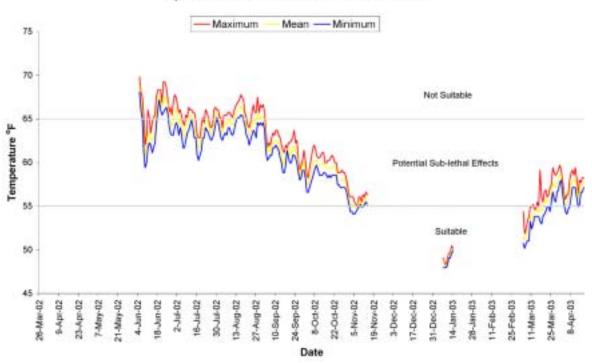
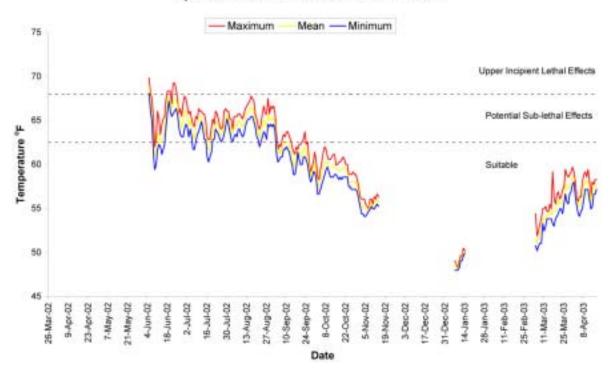


Figure A23. Steelhead Thermal Ranges and Water Temperature Profile Upstream from SCOR Outlet - River Mile 58.8

Figure A24. Chinook Salmon Thermal Ranges and Water Temperature Profile Upstream from SCOR Outlet - River Mile 58.8



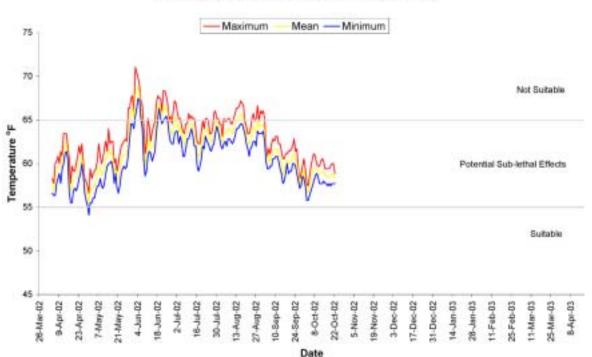
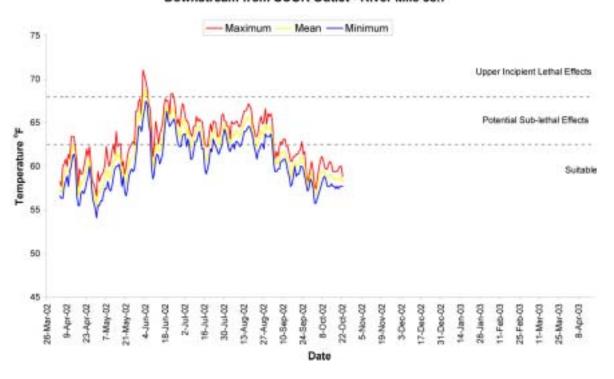


Figure A25. Steelhead Thermal Ranges and Water Temperature Profile Downstream from SCOR Outlet - River Mile 58.7

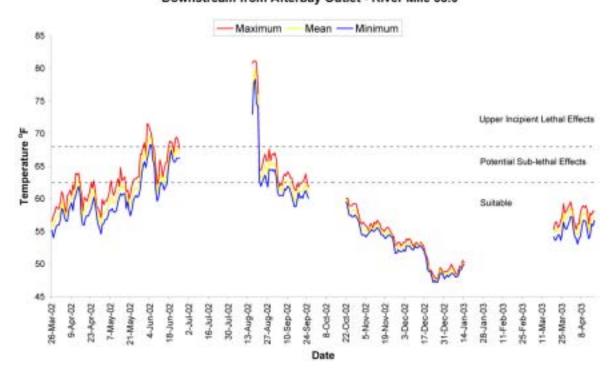
Figure A26. Chinook Salmon Thermal Ranges and Water Temperature Profile Downstream from SCOR Outlet - River Mile 58.7



Maximum Mean - Minimum 75 70 Not Suitable 65 Temperature 'F 60 Potential Sub-lethal Effects Suitable 50 26-Mar-02 27-Aug-02 24-Sep-02 8-Oct-02 22-Oct-02 18-Jun-02 16-Jul-02 30-Jul-00 13-Aug-02 10-Sep-00 19-Mov-02 31-Dec-02 25-Mar-03

Figure A27. Steelhead Thermal Ranges and Water Temperature Profile Downstream from Afterbay Outlet - River Mile 58.6

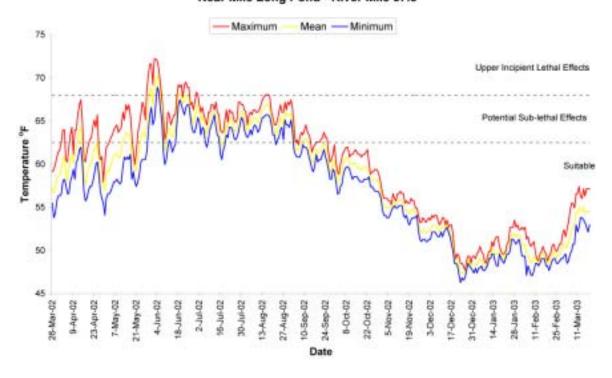
Figure A28. Chinook Salmon Thermal Ranges and Water Temperature Profile Downstream from Afterbay Outlet - River Mile 58.6



Maximum Mean --Minimum 75 70 Not Suitable 65 Temperature *F Potential Sub-lethal Effects 55 Suitable 50 45 28-Mar-02 7-May-02 18-Jun-02 2-Jul-02 30-In-02 13-Aug-02 10-Sep-02 24-Sep-02 8-Oct-02 22-04-02 5-Nov-02 19-Nov-02 31-Dec-02 Date

Figure A29. Steelhead Thermal Ranges and Water Temperature Profile Near Mile Long Pond - River Mile 57.3

Figure A30. Chinook Salmon Thermal Ranges and Water Temperature Profile Near Mile Long Pond - River Mile 57.3



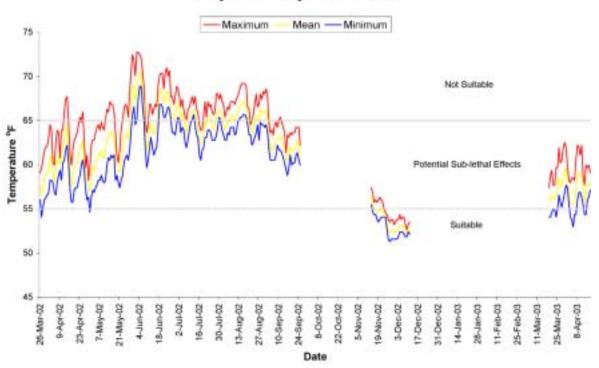
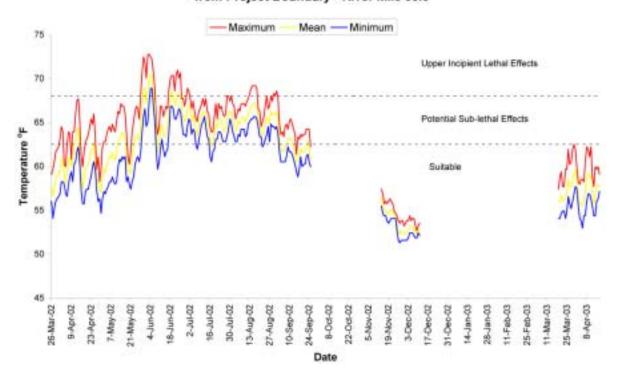


Figure A31. Steelhead Thermal Ranges and Water Temperature Profile from Project Boundary - River Mile 53.5

Figure A32. Chinook Salmon Thermal Ranges and Water Temperature Profile from Project Boundary - River Mile 53.5



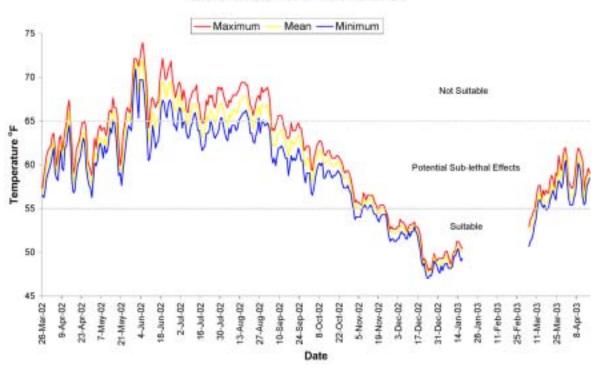


Figure A33. Steelhead Thermal Ranges and Water Temperature Profile at Singh above Riviera Road - River Mile 45.9

Figure A34. Chinook Salmon Thermal Ranges and Water Temperature Profile at Singh above Riviera Road - River Mile 45.9

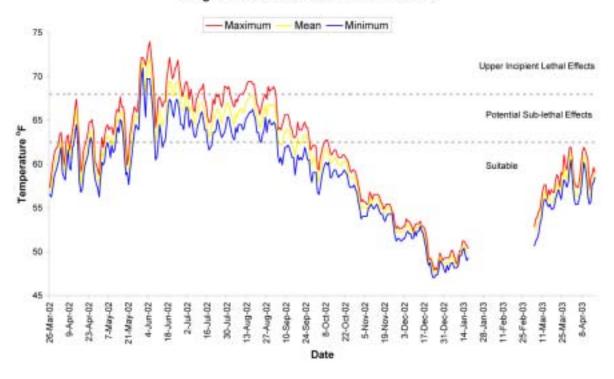
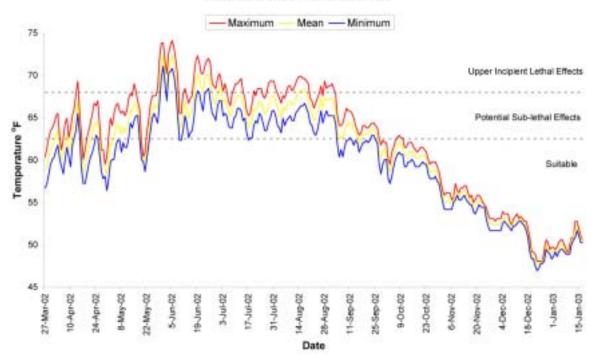


Figure A35. Steelhead Thermal Ranges and Water Temperature Profile at Archer Avenue - River Mile 41.8

Figure A36. Chinook Salmon Thermal Ranges and Water Temperature Profile at Archer Avenue - River Mile 41.8



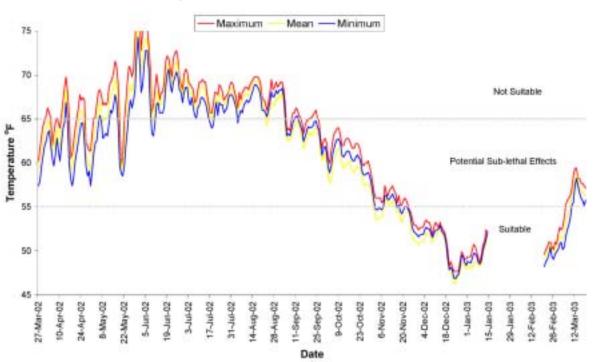
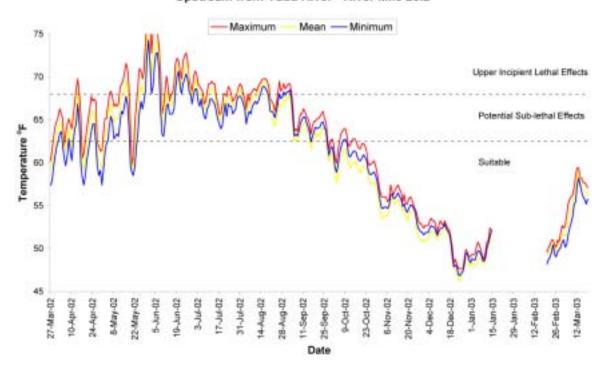


Figure A37. Steelhead Thermal Ranges and Water Temperature Profile Upstream from Yuba River - River Mile 28.2

Figure A38. Chinook Salmon Thermal Ranges and Water Temperature Profile
Upstream from Yuba River - River Mile 28.2



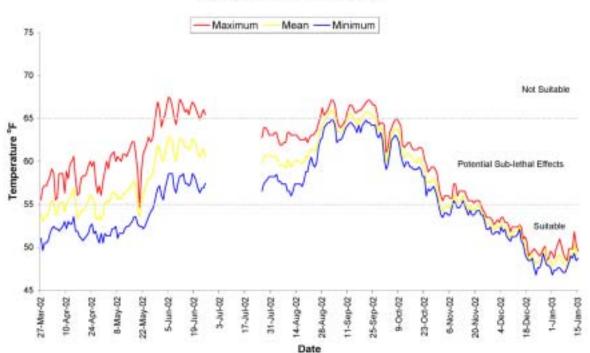
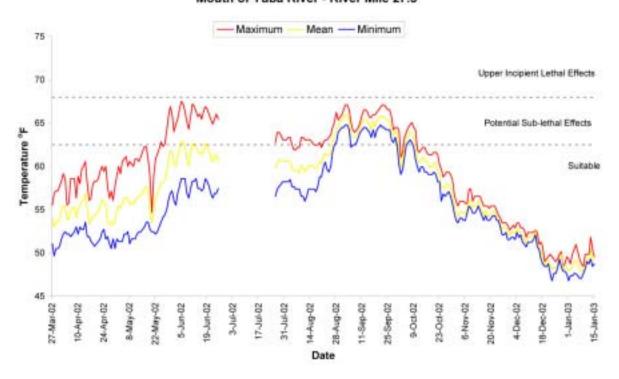


Figure A39. Steelhead Thermal Ranges and Water Temperature Profile at Mouth of Yuba River - River Mile 27.5

Figure A40. Chinook Salmon Thermal Ranges and Water Temperature Profile at Mouth of Yuba River - River Mile 27.5



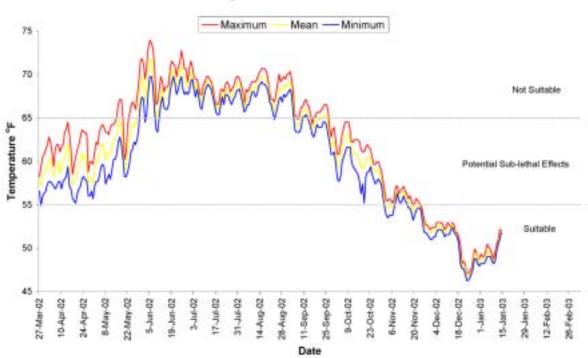
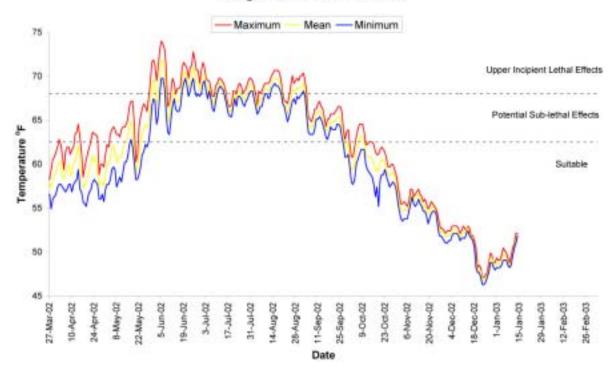


Figure A41. Steelhead Thermal Ranges and Water Temperature Profile at Shanghai Bend - River Mile 25.2

Figure A42. Chinook Salmon Thermal Ranges and Water Temperature Profile at Shanghai Bend - River Mile 25.2



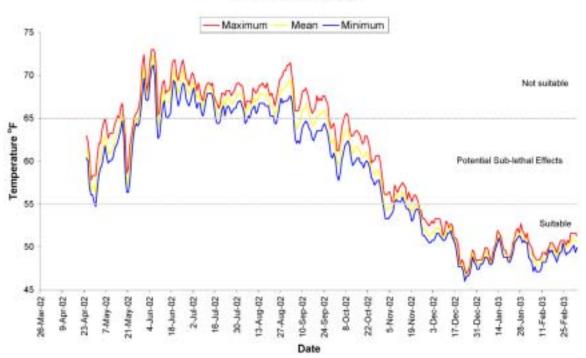
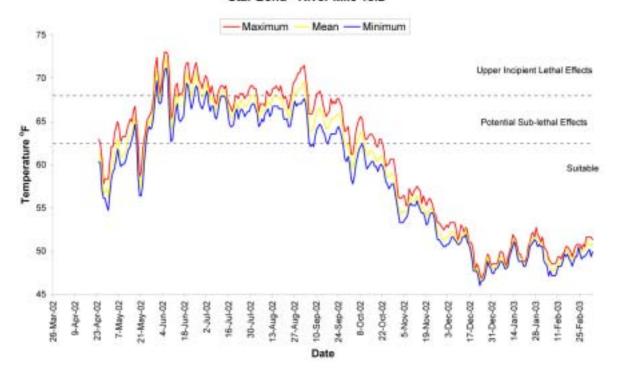


Figure A43. Steelhead Thermal Ranges and Water Temperature Profile at Star Bend - River Mile 18.2

Figure A44. Chinook Salmon Thermal Ranges and Water Temperature Profile at Star Bend - River Mile 18.2



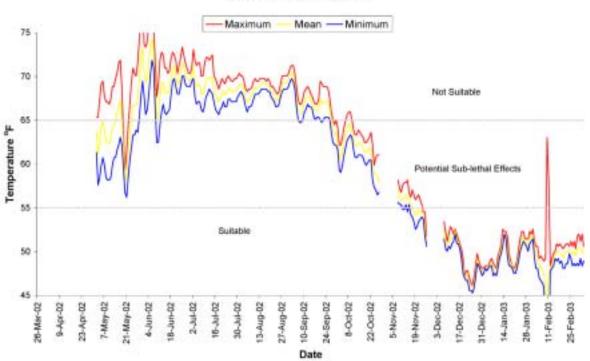
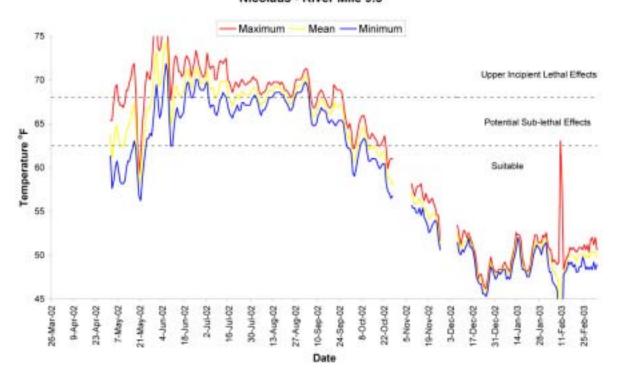


Figure A45. Steelhead Thermal Ranges and Water Temperature Profile at Nicolaus - River Mile 9.3

Figure A46. Chinook Salmon Thermal Ranges and Water Temperature Profile at Nicolaus - River Mile 9.3



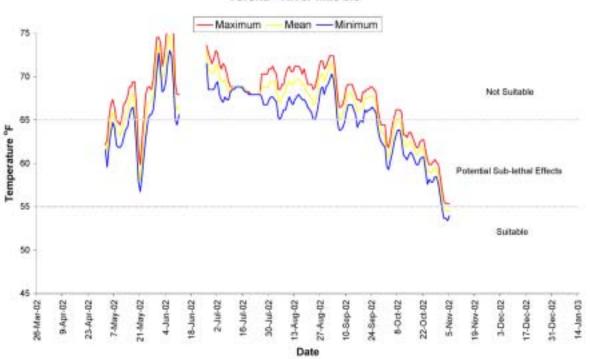


Figure A47. Steelhead Thermal Ranges and Water Temperature Profile near Verona - River Mile 0.3

Figure A48. Chinook Salmon Thermal Ranges and Water Temperature Profile near Verona - River Mile 0.3

